

What Is Claimed Is:

1. A method of data encryption in programming of a control unit comprising:

encrypting data to be transmitted in a programming unit using a first key;

transmitting the encrypted data to the control unit via a data line; and

decrypting the encrypted data in the control unit using a second key provided in the control unit.

2. The method of claim 1, wherein the first key and the second key are identical.

3. The method of claim 1, wherein the first key and the second key are not identical.

4. The method of claim 2, wherein each one of the first key and the second key includes a table that is accessed by a hash function.

5. The method of claim 1, wherein at least one of the first key and the second key is implemented in an electronic circuit.

6. The method of claim 1, wherein at least one of the first key and the second key is implemented in the form of a computer program.

7. A data encryption system, comprising:

a programming unit in which a first key is provided;

a control unit in which a second key is provided; and

a data line coupled to the programming unit and the control unit for transmitting encrypted data.

8. The system of claim 7, wherein the first key and the second key are identical.

9. The system of claim 7, wherein the first key and the second key are not identical.

10. The system of claim 7, wherein the programming unit and the control unit each includes an electronic computing unit and a memory module that are linked together by a data bus.

11. A computer program for execution on a computing unit, the computer program comprising:

a program code arrangement for performing an encryption in accordance with a table and a hash function.

12. The computer program of claim 11, wherein the computing unit includes an electronic computing unit in a programming unit.

13. A computer program for execution on a company unit, the computer program comprising:

a program code arrangement for performing a decryption in accordance with a table and a hash function.

14. The computer program of claim 11, wherein the computing unit includes an electronic computing unit in a control unit.

15. A computer-readable medium, comprising:

a program code arrangement for performing an encryption in accordance with a table and a hash function.

16. A computer-readable medium, comprising:

a program code arrangement for performing a decryption in accordance with a table and a hash function.